

CLAIMS

I/We Claim:

1. A land grid array socket contact, comprising:

a base plate having side walls;

5 a resilient contact extending parallel to the base plate and attached to at least one of the side walls of the base plate by a curved section angled approximately 180 degrees from the at least one side wall, the resilient contact having a free end for contacting a contact pad;

10 and

a board terminal that extends from a lower end of the base plate for connection to a circuit board.

2. The contact of claim 1, further comprising anchoring

15 projections formed on the side walls of the base plate.

3. The contact of claim 1, wherein the free end has a rolled surface.

20 4. The contact of claim 1, wherein the contact is formed from a metal plate and a height of the curved section and the resilient contact in a direction perpendicular to the base plate is substantially twice the thickness of the metal plate.

25

5. The contact of claim 1, wherein a second resilient contact extends between the resilient contact and the free end, the second resilient contact extending at an inclination from an upper end of the resilient contact.

5

6. The contact of claim 1, wherein the second elastic portion extends away from the base plate.

7. The contact of claim 1, wherein the resilient contact and the curved section have substantially the same width.

10

8. The contact of claim 1, wherein the board terminal extends approximately perpendicular to the base plate.

9. The contact of claim 8, wherein the board terminal extends via a connecting portion.

15

10. The contact of claim 1, wherein the curved section extends from a cut-out formed in the base plate.

20

11. The contact of claim 1, wherein the curved section includes a first tapered portion formed on an upper surface thereof on a side of the base plate to increase elasticity.

25

12. The contact of claim 1, wherein the curved section includes a second tapered portion formed on an upper surface thereof on a side of the resilient contact to form a current path with a large cross-sectional area.

5

13. A land grid array socket contact formed from a metal plate, comprising:

a base plate having side walls;

a resilient contact extending parallel to the base

10

plate and attached to at least one of the side walls of the base plate by a curved section so that a height of the curved section and the resilient contact in a direction perpendicular to the base plate is substantially twice the thickness of the metal plate, the resilient contact having

15

a free end for contacting a contact pad; and

a board terminal that extends from a lower end of the base plate for connection to a circuit board.

20

14. The contact of claim 13, further comprising anchoring projections formed on the side walls of the base plate.

15. The contact of claim 13, wherein the free end has a rolled surface.

25

16. The contact of claim 13, wherein a second resilient  
contact extends between the resilient contact and the free  
end, the second resilient contact extending at an  
inclination away from an upper end of the resilient  
5 contact.

17. The contact of claim 13, wherein the resilient contact and  
the curved section have substantially the same width.

10 18. The contact of claim 13, wherein the board terminal  
extends perpendicular to the base plate via a connecting  
portion.

15 19. The contact of claim 13, wherein the curved section  
extends from a cut-out formed in the base plate.

20 20. The contact of claim 13, wherein the curved section  
includes a first tapered portion formed on an upper  
surface thereof on a side of the base plate to increase  
20 elasticity.

21. The contact of claim 13, wherein the curved section  
includes a second tapered portion formed on an upper  
surface thereof on a side of the resilient contact to form  
25 a current path with a large cross-sectional area.

22. A land grid array socket contact, comprising:

a base plate;

5 a resilient contact extending from an upper end of  
the base plate, the resilient contact having an elongated  
slit substantially in a center of the resilient contact  
with respect to a direction of width, the resilient  
contact having a free end for contacting a contact pad;  
and

10 a board terminal that extends from a lower end of the  
base plate for connection to a circuit board.

23. The contact of claim 22, wherein the resilient contact is  
coplanar to the base plate.

15

24. The contact of claim 23, wherein the contact is formed  
from a metal plate and a height of the base plate and the  
resilient contact in a direction perpendicular to the base  
plate is substantially the same as the thickness of the  
20 metal plate.

25. The contact of claim 22, wherein a second resilient  
contact extends between the resilient contact and the free  
end, the second resilient contact extending at an

inclination away from an upper end of the resilient contact.

- 5        26. The contact of claim 22, further comprising anchoring projections formed on side walls of the base plate.
- 10       27. The contact of claim 22, further comprising carrier connecting portions extending from both sides of an upper end of the resilient contact.
- 15       28. The contact of claim 27, wherein the connecting portions flank a second resilient contact that extends between the resilient contact and the free end.
- 20       29. The contact of claim 22, wherein the free end has a rolled surface.
30. The contact of claim 22, wherein the board terminal extends approximately perpendicular to the base plate via a connecting portion.